

Helijector

Foam Proportioning System

- Self contained skid-mounted foam proportioning system
- Manufactured from materials accepted for offshore use
- Suitable for use with the Angus Oscillating Monitor



The Angus Helijector is a self contained skid-mounted foam proportioning system, comprising a foam storage tank, water turbine, foam pump and all interconnecting pipework.

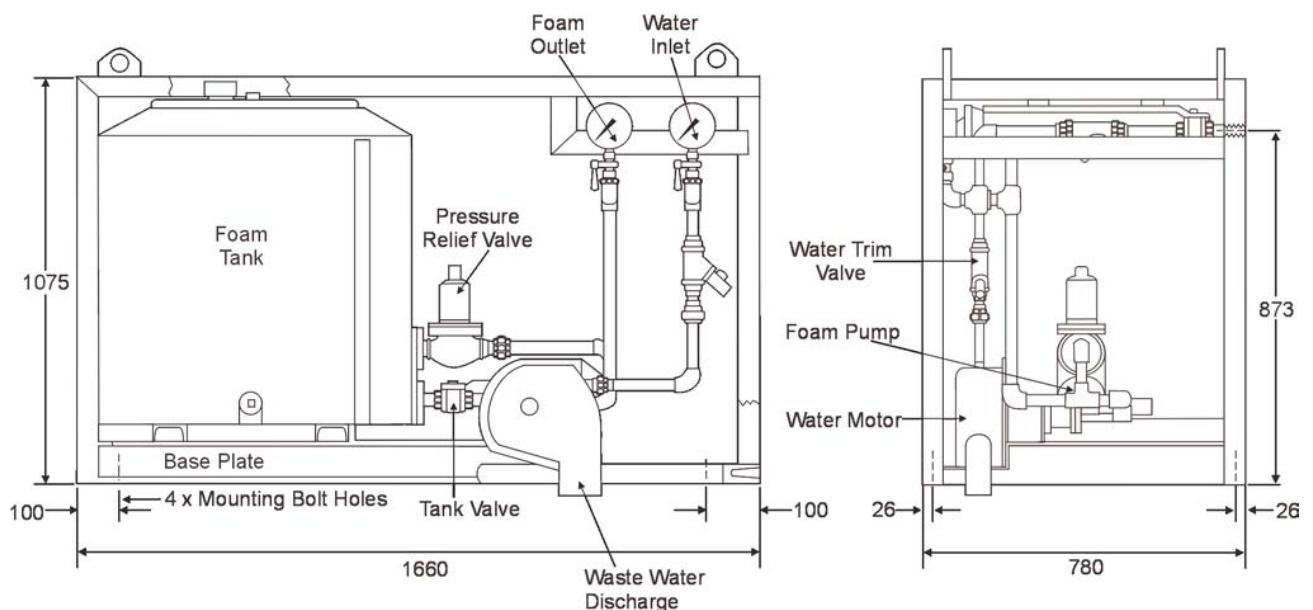
All components are manufactured from materials accepted for offshore use and are mounted within a robust steel framed skid.

Developed primarily for offshore helideck monitor protection systems, the Helijector is available in three sizes to match constant flow rates of 900, 1800 and 2700 litres/minute at 7 bar and is particularly suitable for use with the Angus Oscillating Monitor.

The unit is also ideal for use with any other fixed foam system with a known constant flow where very low maintenance is a priority.

The Angus Helijector requires no external power source other than the fire main water and operates immediately the water inlet valve is opened after pump start up. The initial foam supply gives a running time at 7 bar of between 10 minutes and 30 minutes (see OPERATING DATA) but the atmospheric foam storage tank can be replenished during use to allow continuous operation.

The Helijector is designed to provide a fixed percentage foam concentrate injection (1 %) into a monitor or similar foam system with a constant foam solution demand of 900, 1800 or 2700 litres/minute at 7 bar inlet pressure, or 3% for a 900 litres/minute system operating at 7 bar g. A small amount of mains water is used to drive a pelton wheel turbine connected to a foam pump and the amount of concentrate delivered relates directly to the turbine speed. The system thereby automatically compensates for variations in water flow caused by small fluctuations in system pressure, so operation is maintained. A convenient flushing line is provided to pass clean water through the foam pump after use.



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Construction		
Foam Tank		Glass fibre reinforced polyester resin.
Foam Pump	Casing:	Gunmetal LG2 to BS 1400
	Rotors:	Phosphor Bronze PB2C to BS 1400
	Shafts:	Stainless Steel
Water Motor		Pelton Wheel: Phosphor Bronze PB2C to BS 1400 with LG2
Valves		Gunmetal LG2 to BS 1400
Pressure Gauges		100 mm pressure gauge 0 - 16 bar glycerine filled
Pipes & Fittings		90/10 Copper Nickel to BS 2871 Part 2 Table 3
Skid Framework		Structural Steel to BS 4360
Skid Dimensions (excluding lifting eyes)		1660 x 780 x 1000 mm
Mounting Bolt Holes		4 x 20 mm diameter
Earthing Boss		M10 tapped hole
Finish		Blast cleaned, zinc silicate primed, 3 coats high build epoxy paint and 1 coat enamel paint, Red 538 to BS 381 C: 1980
Weight (approx.)		Empty: 192 Kg. Full: 513 Kg. (300 litres Angus Tridol 'S' 1%)

Operating Data		
Operating Pressure		7 bar
Connections	Water Inlet	1½" NPT male
	Foam Concentrate Outlet	1" NPT male
Foam Tank Capacity		300 litres
Induction Rate		1% (Angus Tridol 'S' 1% grade recommended) 3% at 900 litres/minute flow only (3% Alcolac FFFP)
Operating Time (approx)	900 Model:	30 minutes (10 minutes where 3% used)
	1800 Model:	15 minutes
	2700 Model:	10 minutes
Operating Temperature Range		0°C to 50°C ambient

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